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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/532,408	04/22/2005	Kaoru Masuda	270621US0PCT	9133	
22850	7590 09/08/2005		EXAM	INER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			KORNAKOV	, MICHAIL	
			ART UNIT	PAPER NUMBER	
	•			1746	

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

e MC		/			
	Application No.	Applicant(s)			
	10/532,408	MASUDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Michael Kornakov	1746			
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO (36(a). In no event, however, may a reply be ti- will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 22 A	pril 2005.				
3) Since this application is in condition for allowa closed in accordance with the practice under the second secon	nce except for formal matters, pr				
Disposition of Claims					
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on 22 April 2005 is/are: a		by the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correc	tion is required if the drawing(s) is ob	ojected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).			
1. ☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prio	rity documents have been receiv	ed in this National Stage			
application from the International Burea	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)					
1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	(PTO-413) ate.			
3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal F	Patent Application (PTO-152)			
Paper No(s)/Mail Date <u>04/22/05</u> .	6)				

DETAILED ACTION

Claim Interpretation

1. Claim 1 recites "a cleaning agent composition essentially containing carbon dioxide and a cleaning component...", which is interpreted as a cleaning agent composition consisting essentially of a carbon dioxide and a cleaning component.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 1, 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recited in claim 5 "cleaning agent composition further contains 1% by mass or more an alcohol" constitutes an indefinite subject matter, because claim 5 depends on claim 1, wherein the transitional phrase "essentially containing", which is interpreted as consisting essentially of, is recited, thus limiting the composition to "materials or steps "and those that do not materially affect the basic and novel characteristic(s)" of the claimed invention, consult *In re* Herz, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976). The addition of alcohol, however, will materially affect the claimed method, because the presence of alcohol in cleaning composition will

enhance the cleaning ability of such composition, thus materially affecting the cleaning process.

4. The recited in claim 1 "high pressure" constitutes an indefinite subject matter, because the term "high" is a relative term which renders the claim indefinite.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Koch (U.S. 6,331,487).

Koch teaches a method of removing residues from semiconductor substrate by contacting the substrate with the cleaning composition, prepared by mixing pressurized carbon dioxide with hydrogen fluoride, wherein the concentration of hydrogen fluoride corresponds to the instantly claimed values. Regarding the instant claim 4, since Koch teaches that preferably the cleaning composition includes only carbon dioxide and HF, the presence of water in such composition is expected only in trace amounts, which corresponds to parameters recited in the instant claim 4 (col.2, lines 22-25, 55-63; col.3, line 3, lines 11-15).

Therefore, all the limitations of the instant claims are met by Koch.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Kornakov whose telephone number is (571) 272-1303. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Kornakov Primary Examiner

Art Unit 1746

09/02/2005